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What is claimed is:

- 1. A scalable motion image compression system for a digital motion image signal wherein the digital motion image signal has an associated transmission rate, the system comprising:
- a decomposition module for receiving the digital motion image signal at the transmission rate, decomposing the digital motion image signal into component parts and sending the components at the transmission rate; and
- a compression module for receiving each of the component parts from the decomposition module, compressing the component part, and sending the compressed component part to a memory location.
 - 2. A scalable motion image compression system according to claim 1, wherein the decomposition module includes one or more decomposition units.
 - 3. A scalable motion image compression system according to claim 1, wherein the digital motion image signal is compressed at the transmission rate.
 - 4. A scalable motion image compression system according to claim 1 further comprising a programmable module for routing the decomposed digital motion image signal between the decomposition module and the compression module.
- 5. A scalable motion image compression system according to claim 4, wherein the programmable module is a field programmable gate array.
- 6. A scalable motion image compression system according to claim 5, wherein the field programmable gate array is reprogrammable.
 - 7. A scalable motion image compression system according to claim 1, wherein the compression module includes one or more compression units.
- 8. A scalable motion image compression system according to claim 7, wherein the throughput of a compression unit multiplied by the number of compression units is greater than or equal to the transmission rate of the digital motion image signal.
- 9. A scalable motion image compression system according to claim 7,30 wherein each compression unit operates in parallel.
 - 10. A scalable motion image compression system according to claim 1, wherein the decomposition module includes one or more decomposition units.
 - 11. A scalable motion image compression system according to claim 1, wherein each decomposition unit operates in parallel.

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- 12. A scalable motion image compression system according to claim 1, wherein the decomposition module performs color decorrelation.
- 13. A scalable motion image compression system according to claim 1, wherein the decomposition module performs color rotation.
- 5 14. A scalable motion image compression system according to claim 1, wherein the decomposition module performs temporal decomposition.
 - 15. A scalable motion image compression system according to claim 1, wherein the decomposition module performs spatial decomposition.
 - 16. A scalable motion image compression system according to claim 1, wherein the compression module uses subband coding.
 - 17. A scalable motion image compression system according to claim 13, wherein the subband coding uses wavelets.
 - 18. A scalable motion image compression system according to claim 1, wherein the spatial decomposition is spatial polyphase decomposition.
 - 19. A scalable system for performing motion image compression of a digital motion image input signal having an associated transmission rate, the system comprising:
 - a plurality of compression blocks, each block having a decomposition module and a compression module
 - a signal distributor coupled to the compression blocks for partitioning the digital motion image input signal into a plurality of segments providing a distinct component of the input signal to each of the compression units;

the decomposition module decomposing a segment into component parts and sending the components; and

a compression module for receiving a component from a corresponding decomposition module, compressing the component, and sending the compressed component part to a memory location.

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